

1301WOORD091

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

CORRECTED VERSION

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
30 June 2005 (30.06.2005)

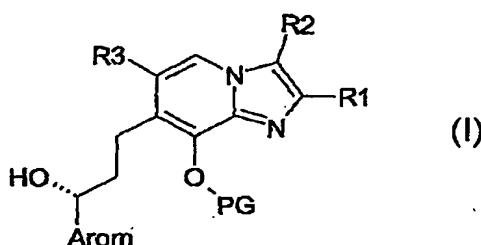
PCT

(10) International Publication Number  
**WO 2005/058894 A1**

- (51) International Patent Classification<sup>7</sup>: C07D 471/04, 493/14
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (21) International Application Number:  
PCT/EP2004/053562
- (22) International Filing Date:  
17 December 2004 (17.12.2004)
- (25) Filing Language:  
English
- (26) Publication Language:  
English
- (30) Priority Data:  
03029361.7 19 December 2003 (19.12.2003) EP  
04103550.2 23 July 2004 (23.07.2004) EP
- (71) Applicant (for all designated States except US): ALTANA PHARMA AG [DE/DE]; Byk-Gulden-Str. 2, 78467 Konstanz (DE).
- (72) Inventors (for all designated States except CA, PH, US): ZIMMERMANN, Peter, Jan; Zum Lerchental 43/1, 78315 Radolfzell (DE). BREHM, Christof; Richentalstr. 8, 78462 Konstanz (DE). CHIESA, M. Vittoria; Alpenstr. 5, 78464 Konstanz (DE).
- (72) Inventor: BUHR, Wilm; Zum Kirchenwald 20, D-78465 Konstanz (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): PALMER, Andreas [DE/DE]; Pirminweg 1a, 78467 Konstanz (DE). NETTEKOVEN, Ulrike [AT/CH]; Strassburger Allee 88, CH-4055 Basel (CH).
- (74) Agents: WOLF, Ulrich et al.; Altana Pharma AG, Byk-Gulden-Str. 2, 78467 Konstanz (DE).
- (48) Date of publication of this corrected version:  
11 May 2006
- (15) Information about Correction:  
see PCT Gazette No. 19/2006 of 11 May 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INTERMEDIATES FOR THE PREPARATION OF TRICYCLIC DIHYDROPYRANO -IMIDAZO -PYRIDINES DERIVATIVES



(57) Abstract: The invention relates to compounds of the formula (I), in which R1, R2, R3, Arom and PG have the meanings as indicated in the description. These compounds are valuable intermediates for the preparation of pharmaceutically active compounds.

WO 2005/058894 A1